J K S Baldwin

List of Publications by Year in descending order

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LK S RALDWIN

#	Article	IF	CITATIONS
1	Nitrogen-Doped Graphene-Rich Catalysts Derived from Heteroatom Polymers for Oxygen Reduction in Nonaqueous Lithium–O ₂ Battery Cathodes. ACS Nano, 2012, 6, 9764-9776.	14.6	486
2	Outstanding radiation resistance of tungsten-based high-entropy alloys. Science Advances, 2019, 5, eaav2002.	10.3	360
3	Room-temperature single-photon generation from solitary dopants of carbon nanotubes. Nature Nanotechnology, 2015, 10, 671-675.	31.5	234
4	Ozonated Graphene Oxide Film as a Protonâ€Exchange Membrane. Angewandte Chemie - International Edition, 2014, 53, 3588-3593.	13.8	214
5	Determination of the Solid Electrolyte Interphase Structure Grown on a Silicon Electrode Using a Fluoroethylene Carbonate Additive. Scientific Reports, 2017, 7, 6326.	3.3	157
6	Heterogeneous to homogeneous melting transition visualized with ultrafast electron diffraction. Science, 2018, 360, 1451-1455.	12.6	133
7	Direct Determination of Solid-Electrolyte Interphase Thickness and Composition as a Function of State of Charge on a Silicon Anode. Journal of Physical Chemistry C, 2015, 119, 20339-20349.	3.1	127
8	Evaluating the solid electrolyte interphase formed on silicon electrodes: a comparison of ex situ X-ray photoelectron spectroscopy and in situ neutron reflectometry. Physical Chemistry Chemical Physics, 2016, 18, 13927-13940.	2.8	80
9	The role of grain size in He bubble formation: Implications for swelling resistance. Journal of Nuclear Materials, 2017, 484, 236-244.	2.7	70
10	Flow-based solution–liquid–solid nanowire synthesis. Nature Nanotechnology, 2013, 8, 660-666.	31.5	67
11	Microcompression study of Al-Nb nanoscale multilayers. Journal of Materials Research, 2012, 27, 592-598.	2.6	58
12	Rapid solidification growth mode transitions in Al-Si alloys by dynamic transmission electron microscopy. Acta Materialia, 2017, 131, 22-30.	7.9	58
13	Time-Resolved In Situ Measurements During Rapid Alloy Solidification: Experimental Insight for Additive Manufacturing. Jom, 2016, 68, 985-999.	1.9	53
14	Strong, Ductile, and Thermally Stable bcc-Mg Nanolaminates. Scientific Reports, 2017, 7, 8264.	3.3	53
15	Growth and structural characterization of epitaxial Cu/Nb multilayers. Thin Solid Films, 2011, 519, 4137-4143.	1.8	45
16	Room temperature deformation mechanisms of Mg/Nb nanolayered composites. Journal of Materials Research, 2018, 33, 1311-1332.	2.6	43
17	Self-organization of helium precipitates into elongated channels within metal nanolayers. Science Advances, 2017, 3, eaao2710.	10.3	41
18	Trapping of implanted He at Cu/Nb interfaces measured by neutron reflectometry. Applied Physics Letters, 2011, 98, .	3.3	40

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19	Smallest Metallic Nanorods Using Physical Vapor Deposition. Physical Review Letters, 2013, 110, 136102.	7.8	40
20	Radiation induced effects on mechanical properties of nanoporous gold foams. Applied Physics Letters, 2014, 104, .	3.3	39
21	Mechanical properties of metal-ceramic nanolaminates: Effect of constraint and temperature. Acta Materialia, 2018, 142, 37-48.	7.9	39
22	Achieving Radiation Tolerance through Non-Equilibrium Grain Boundary Structures. Scientific Reports, 2017, 7, 12275.	3.3	38
23	Indentation Fracture Response of Al–TiN Nanolaminates. Materials Research Letters, 2013, 1, 102-108.	8.7	33
24	Design of radiation resistant metallic multilayers for advanced nuclear systems. Applied Physics Letters, 2014, 104, .	3.3	33
25	Solid‣tate Approach for Fabrication of Photostable, Oxygenâ€Doped Carbon Nanotubes. Advanced Functional Materials, 2015, 25, 6157-6164.	14.9	30
26	Controlled nanoporous Pt morphologies by varying deposition parameters. Applied Physics Letters, 2009, 95, .	3.3	27
27	Evidence of a temperature transition for denuded zone formation in nanocrystalline Fe under He irradiation. Materials Research Letters, 2017, 5, 195-200.	8.7	27
28	What determines the interfacial configuration of Nb/Al2O3 and Nb/MgO interface. Scientific Reports, 2016, 6, 33931.	3.3	25
29	Detection of helium bubble formation at fcc-bcc interfaces using neutron reflectometry. Journal of Applied Physics, 2013, 114, .	2.5	24
30	Investigating phosphonate monolayer stability on ALD oxide surfaces. Applied Surface Science, 2014, 288, 98-108.	6.1	22
31	Thermal flux limited electron Kapitza conductance in copper-niobium multilayers. Applied Physics Letters, 2015, 106, .	3.3	21
32	Synthesis and characterization of nanoporous Pt–Ni alloys. Applied Physics Letters, 2009, 95, 201902.	3.3	20
33	Texture evolution in nanocrystalline iron films deposited using biased magnetron sputtering. Journal of Applied Physics, 2014, 116, .	2.5	19
34	Methylammonium Lead Tribromide Single Crystal Detectors towards Robust Gammaâ€Ray Photon Sensing. Advanced Optical Materials, 2020, 8, 2000233.	7.3	18
35	Anomaly of film porosity dependence on deposition rate. Applied Physics Letters, 2012, 100, 061601.	3.3	16
36	A study of the effect of iron island morphology and interface oxidation on the magnetic hysteresis of Fe-MgO (001) thin film composites. Journal of Applied Physics, 2012, 112, .	2.5	16

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37	Solitary Oxygen Dopant Emission from Carbon Nanotubes Modified by Dielectric Metasurfaces. ACS Nano, 2017, 11, 6431-6439.	14.6	15
38	In situ frustum indentation of nanoporous copper thin films. International Journal of Plasticity, 2017, 98, 139-155.	8.8	15
39	Microstructure and mechanical properties of co-sputtered Al-SiC composites. Materials and Design, 2019, 168, 107670.	7.0	13
40	Stress-induced surface instabilities and defects in thin films sputter deposited on compliant substrates. Soft Matter, 2017, 13, 4035-4046.	2.7	12
41	Comparison of void swelling of ferritic-martensitic and ferritic HT9 alloys after high-dose self-ion irradiation. Materials Characterization, 2021, 173, 110908.	4.4	11
42	Characterization of a Fe/Y2O3 metal/oxide interface using neutron and x-ray scattering. Applied Physics Letters, 2014, 105, 041601.	3.3	10
43	Reflectance determination of optical spectral emissivity of metal surfaces at ambient conditions. Journal of Applied Physics, 2018, 124, .	2.5	10
44	Structure and properties of pseudomorphically transformed bcc Mg in Mg/Nb multilayered nanolaminates studied using synchrotron X-ray diffraction. Journal of Applied Physics, 2019, 126, 025302.	2.5	10
45	Toward high-throughput defect density quantification: A comparison of techniques for irradiated samples. Ultramicroscopy, 2019, 206, 112820.	1.9	8
46	Quantification of void pinning effects during grain growth of nanocrystalline iron. Journal of Nuclear Materials, 2016, 481, 62-65.	2.7	7
47	The alleviation of radiation-damage on Nb/MgO film driven by strain gradient in He ion irradiation. Applied Surface Science, 2019, 465, 1014-1018.	6.1	7
48	Irradiation induced changes in small angle grain boundaries in mosaic Cu thin films. Applied Physics A: Materials Science and Processing, 2012, 108, 121-126.	2.3	6
49	Fluid and Resistive Tethered Lipid Membranes on Nanoporous Substrates. Journal of Physical Chemistry B, 2015, 119, 12868-12876.	2.6	6
50	Cr incorporated phase transformation in Y2O3 under ion irradiation. Scientific Reports, 2017, 7, 40148.	3.3	6
51	Implications of Microstructure in Helium-Implanted Nanocrystalline Metals. Materials, 2022, 15, 4092.	2.9	6
52	Multi-exciton emission from solitary dopant states of carbon nanotubes. Nanoscale, 2017, 9, 16143-16148.	5.6	5
53	Nanoscale morphologies at alloyed and irradiated metal-oxide bilayers. Journal of Materials Science, 2015, 50, 2726-2734.	3.7	4
54	Initial results and designs of dual-filter and plenoptic imaging for high-temperature plasmas. Review of Scientific Instruments, 2018, 89, 10E112.	1.3	4

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55	High-pressure and high-temperature neutron reflectometry cell for solid-fluid interface studies. European Physical Journal Plus, 2012, 127, 1.	2.6	3
56	Enhanced van der Waals epitaxy of germanium by out-of-plane dipole moment induced from transferred graphene on TiN/AlN multilayers. Journal of Applied Physics, 2021, 130, .	2.5	3
57	The Effect of Ballistic Electron Transport on Copper-Niobium Thermal Interface Conductance. , 2013, , .		0
58	Coupling Quantitative Dislocation Analysis with In Situ Loading Techniques: New Insight into Deformation Mechanisms. Microscopy and Microanalysis, 2017, 23, 764-765.	0.4	0